bio-protocol Preprint

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Culture of mouse/rat primary neurons

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An abbreviated version of this protocol was published in eLIFE in Mar 2021

An optimized CRISPR/Cas9 approach for precise genome editing in neurons

DOI: 10.7554/eLife.65202

Detailed protocol

Note:
1. Usually we use tissue from E18 pups for neuron culture, but E19-P0 works too, with a little lower survival rate.
2. This protocol works for both mouse and rat.
3. For cortical neuron culture, plate higher density of neuron, e.g. 500-600K/well (6-well plate) or 160-200K/well (12-well plate).

Related files

Isolation and Culture of Hippocampal Neurons.pdf

How to cite:(Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Huganir, R. and Fang, H. (2021). Culture of mouse/rat primary neurons. Bio-protocol Preprint. bio-protocol.org/prep1074.
2. Fang, H., Bygrave, A. M., Roth, R. H., Johnson, R. C. and Huganir, R. L.(2021). An optimized CRISPR/Cas9 approach for precise genome editing in neurons. eLIFE. DOI: 10.7554/eLife.65202